

PATENT ABSTRACTS OF JAPAN

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(54) TRANSFER-TYPE THERMAL RECORDING MEDIUM

(57)Abstract:

PURPOSE: To enable clear printing even on transfer recording paper having a poor surface smoothness, by providing a second layer containing a coloring agent and so conditioned as not to be melted to become a low-viscosity liquid on a first layer not containing a coloring agent and so conditioned as to be melted to become a low-viscosity liquid when heated, and incorporating an ionomer resin in the second layer.

CONSTITUTION: It is preferable that a first layer of a thermally transferable ink layer comprises a waxy substance which shows a peak value of not higher than 120° C upon differential thermal analysis and which is easily melted to become a low-viscosity liquid when being heated. A second layer comprises an ionomer resin which has no definite melting point, and becomes tacky to a transfer recording material when supplied with thermal energy at the time of recording but is not melted to be a low-viscosity liquid. The ionomer resin has a structure wherein carboxylic acid groups are present as side chains on a polyethylene molecular chain, and part of the carboxylic acid groups are crosslinked between the molecular chains by metallic cations. The ionomer resin has such a property that the bond strength therein is lowered upon heating and is enhanced upon cooling. Therefore, sharp transfer onto the transfer recording paper can be achieved.

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